



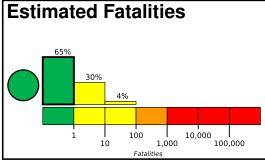


PAGER Version 2

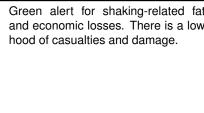
Created: 2 hours, 5 minutes after earthquake

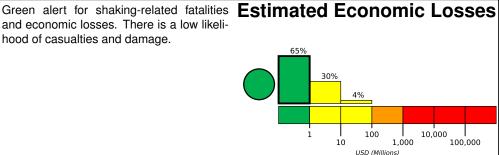
M 4.2, 46 km WNW of Petrolia, CA

Origin Time: 2023-11-11 03:15:23 UTC (Fri 19:15:23 local) Location: 40.4089° N 124.8785° W Depth: 22.9 km



and economic losses. There is a low likelihood of casualties and damage.



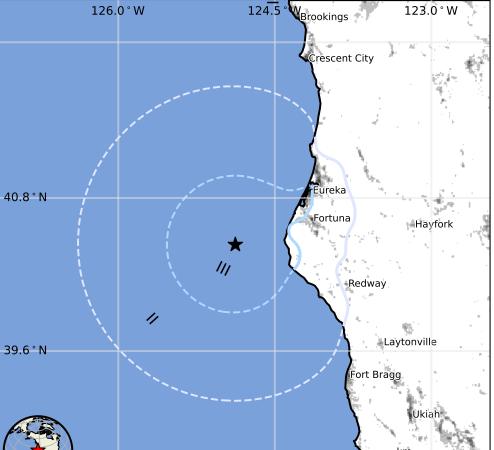


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		291k	129k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

population per 1 sq. km from Landscan **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
2000-09-03	309	5.0	VI(77k)	0
1980-11-08	91	7.3	IX(16k)	0
1993-09-21	319	6.0	VI(47k)	1

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org MMI City Population Humboldt Hill Ш 3k Ш Eureka 27k Ш Bayview 3k Ш Pine Hills 3k Ш Ferndale 1k Ш Arcata 17k Ш Bayside 17k Ш **Fortuna** 12k Ш McKinleyville 15k Ukiah 16k

Clearlake bold cities appear on map.

(k = x1000)

15k